

**WHAT IS CLAIMED IS:**

1. A method for broadcasting data in a mobile communication system including a core network and a plurality of mobile stations (MSs),  
5 comprising the steps of:

broadcasting, by the core network, transmission data over one shared downlink channel to the MSs within one base transceiver station (BTS) service area; and

generating, by the MSs, receiving report data indicating whether the data  
10 has successfully been received, and transmitting the receiving report data to the core network at uniquely assigned uplink channel positions.

2. The method of claim 1, wherein the core network splits the data of a main data block.

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3. The method of claim 2, wherein the main data block is comprised of a header block, a retransmission data block and a transmission data block.

20 4. The method of claim 3, wherein each of the MSs analyzes the header block of the received data, to determine whether to receive the retransmission data block.

5. The method of claim 1, wherein each of the MSs waits for a

transmission request from the core network in order to uplink the receiving report data indicating whether the transmission data has successfully been received.